Fermilab Today

Monday, August 7, 2006

Calendar

Monday, August 7
PARTICLE ASTROPHYSICS SEMINARS WILL RESUME IN THE FALL
3:30 p.m. Director's Coffee Break - 2nd floor crossover
4:00 p.m. All Experimenters' Meeting - Curia II

Tuesday, August 8
12:00 p.m. Summer Lecture Series - Curia II
Speaker: R. Pordes, Fermilab
Title: Computing at Fermilab
3:30 p.m. DIRECTOR'S COFFEE BREAK - 2nd Flr X-over
4:00 p.m. Accelerator Physics and Technology Seminar - 1 West
Speaker: W. Lee, Fermilab
Title: Operating the DZero Detector

Click here for a full calendar with links to additional information.

Weather

Partly Cloudy **85º/60º**

Extended Forecast

Weather at Fermilab

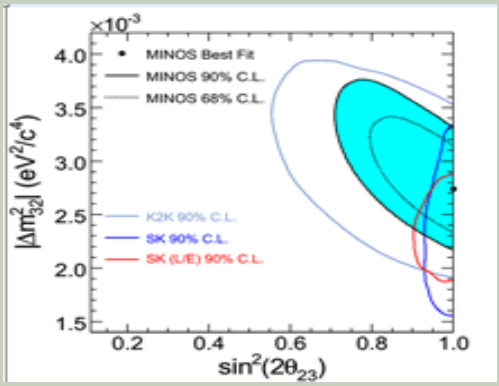
Current Security Status

Secon Level 3

Wilson Hall Cafe

Special Physics Result

MINOS reports new results



The MINOS experiment now provides the best accelerator-based measurements for two neutrino oscillation parameters, delta m^2 and $\sin^2$ theta, improving on the results obtained by the K2K experiment in Japan. The best results so far stem from the Super-Kamiokande (SK) experiment, which studies extraterrestrial neutrinos.

At Friday's Wine & Cheese seminar at Fermilab, the MINOS collaboration presented new neutrino results based on data taken through March 1, 2006. The collaboration analyzed measurements based on 1.27×10^{20} protons on target, a 37 percent increase compared to the first results of the MINOS neutrino experiment presented in March of this year.

Sending a high-intensity beam of muon neutrinos from Fermilab to a neutrino detector in the Soudan Underground Laboratory in Minnesota, the MINOS collaboration observed the disappearance of about half of these neutrinos. The number of "disappeared" neutrinos is consistent with an effect known as neutrino oscillation: muon neutrinos can change into tau neutrinos

Safety Tip of the Week

Pre-work review

"Failing to plan is planning to fail."
--Alan Lakein, time management expert

When most people start out on a new task, they tend to assume that things will go right. It's human nature to be optimistic and focus on how things will get done, rather than to think about what could go wrong. You consider the task and develop a set of actions that will inevitably drive you to the goal. Unfortunately, life is seldom this simple. If you don't think about what could go wrong before you start, you risk discovering the weaknesses along the way. This can be a major source of accidents, delays, increased costs and compromised quality.

Consider the following to identify potential problems:

- Deficiencies: Do you have all the necessary materials, equipment, training, experience, knowledge and information?

- Adequate control: Are you ready to go, or are you dependent on someone else to provide something?

Monday, August 7
-Potato Au Gratin
-Monte Cristo
-Savory Roasted Chicken Quarters
-Lasagna Bolognaise
-Chicken Ranch Wrapper
-Assorted Slice Pizza
-Szechuan Style Pork Lo Mein

The Wilson Hall Cafe accepts Visa, Master Card, Discover and American Express.

Wilson Hall Cafe Menu

Chez Leon

Wednesday, August 9
Lunch
-Seafood and Avocado Salad w/Ginger
-Blueberry Pie w/Vanilla Ice Cream

Thursday, August 10
Dinner
-Seafood Salad
-Veal Saltimbocca
-Julienne of Peppers, Onions and Basil
-Hazelnut Cake w/Crème Anglais

Chez Leon Menu
Call x4598 to make your reservation.

Search

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search

Info

or electron neutrinos, which can escape detection by the 6,000-ton MINOS far detector.

Without neutrino oscillation, the MINOS far detector would have recorded, after filtering the data, 336 +/- 14 muon neutrinos. Instead, the MINOS collaboration observed 215 muon neutrinos.

Read More

Members of the MINOS collaboration. (Click for larger version.)

Employee Performance Recognition Awards

Recipients of Employee Performance Recognition Awards. To see individual winners, click here.

On August 3, thirty-five employees received Employee Performance Recognition Awards. Fermilab Director Pier Oddone presented award certificates at 4:30 p.m. on the Wilson Hall Crossover. "My favorite activity is to recognize outstanding performance," said Oddone. "We are doing that today with a group of individuals that have gone beyond their duties and done something great. They contribute mightily

- Discord: Are there any areas where key players disagree?

- Time: Is there enough to do the job properly?

Lab policy requires a pre-work review for all activities carried out by Fermilab employees (FESHM 2060) or service subcontractors (FESHM 7020). The objectives are to identify associated ES&H hazards and specify the controls needed to minimize the probability of an accident. In some cases, a written hazard analysis may be required (i.e., complex jobs, unfamiliar hazards, high hazards, participation of multiple organizations). In particular, a written analysis is required for all construction work (FESHM 7010 and FESHM 7011).

Safety Tip of the Week Archive

Accelerator Update

August 2 - 4
- Fermi lower power usage per ComEd request
- Half of stash lost due to lightning strike
- Store 4868 lost due to lightning strike
- Booster quad trip hold off beam
- Stash lost due to Power supply problem
- TeV shot setup aborted
- Machine Reports

Read the Current Accelerator Update
Read the Early Bird Report
View the Tevatron Luminosity Charts

Announcements

Fermilab Today is online at: http://www.fnal.gov/today/

Send comments and suggestions to today@fnal.gov

Fermilab Today archive

Hurricane Relief Page

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Fermilab Result of the Week archive

Fermilab Safety Tip of the Week archive

Linear Collider News archive

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In the News

KEK Press Release, August 1, 2006:

KEK B-Factory Observed Tau and Tau-Neutrino Decay

The goal of the B-factory at the High Energy Accelerator Research Organization (KEK) is not only to test the Kobayashi-Maskawa theory, an ingredient of the Standard Model to explain the violation of the matter and anti-matter (CP) symmetry, but also to find effects of new particles in rare decays of the B mesons. The Belle experiment has recently revealed evidence for a rare "missing energy" decay of the B mesons for the first time, and the measurement of the decay gives a tight constraint on a hypothetical particle called "charged Higgs". The results were announced at the 33rd International Conference on High Energy Physics, being held in Moscow from July 26.

The neutrino cannot be detected in the Belle experiment because of its so weak interaction with matter, hence observed as a "missing energy". B decays accompanying neutrinos in the final state are sensitive to new particles, if they exist, therefore, have been long sought despite the difficulty in detection.
Read More

Hadron Collider Physics Summer School

Wednesday, August 9, marks the first day of Hadron Collider Physics Summer School. The first public lecture, titled "Physics with Accelerators," will be given by AD head Roger Dixon at 2:30 p.m. in the auditorium. You can see a full schedule here. The lectures will also be available via streaming video.

Soccer match between Fermilab and Argonne today

Don't miss the event employees are calling the "soccer match of the century." Argonne will play against Fermilab today, August 7, at 6:30 pm on Fermilab's soccer field in the village.

Final presentation from SIST interns

The final presentation for the interns in the SIST program will be held Tuesday, August 8, in 1 West. The agenda can be found here. The talks are open to the public.

Renaissance Faire discount tickets

September 1 will be your last chance to get Renaissance Faire discount tickets. The fair features entertainment on 16 open-air stages; a sampling of delectable treats from 50 food booths; and a marketplace with over 180 high-quality arts and crafts shops. Enjoy a day filled with revelry and merriment, the arts, enlightenment, and family fun. The fair runs through September 4 on Saturdays and Sundays from 10:00 a.m. until 7:00 p.m. (rain or shine). Discount ticket prices are $16.00 for adults (plus $.25 service charge)and $7.50 for children age 5 to 12 (plus $.25 service charge). Purchase tickets in the Recreation Office, by mail or by phone.

Upcoming Activities